

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit Unknown

In re

Patent Application of

Allen M. Tereba, et al.

Application No. Unknown

Confirmation No.: Unknown

Filed: October 27, 2003

Examiner: Unknown

“SIMULTANEOUS ISOLATION AND
QUANTITATION OF DNA”

**INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR §1.97(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and/or PTO/SB/08B, copies of which are not being provided herewith because, pursuant to 37 C.F.R. §1.98(d), copies were previously submitted to, or cited by, the office in U.S. Serial No. 09/377,986, filed August 20, 1999, and U.S. Serial No. 08/785,097, filed January 21, 1997 which are being relied upon for an earlier filing date under 35 U.S.C. §120.

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,


Grady J. Frenchick
Reg. No. 29,018

File No. 016026-9043 DIV
Michael Best & Friedrich LLP
One South Pinckney Street
P. O. Box 1806
Madison, WI 53701-1806
(608) 257-3501
Q:\client\016026\9043\B0255200.1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 6

Application Number	Unknown
Filing Date	
First Named Inventor	Allen M. Tereba
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	016026-9043 DIV

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	US- 4,233,169		11/11/1980	Beall et al.	All
AB	US- 4,297,337		10/27/1981	Mansfield et al.	All
AC	US- 4,395,271		07/26/1983	Beall et al.	All
AD	US- 4,672,040		07/09/1987	Josephson	All
AE	US- 4,683,202		07/28/1987	Mullis	All
AF	US- 4,695,393		09/22/1987	Whitehead et al.	All
AG	US- 4,699,717		10/13/1987	Riesner et al.	All
AH	US- 4,767,670		08/30/1988	Cox et al.	All
AI	US- 5,057,426		10/15/1991	Henco et al.	All
AJ	US- 5,075,430		12/24/1991	Little	All
AK	US- 5,076,950		12/31/1991	Ullman et al.	All
AL	US- 5,155,018		10/13/1992	Gillespie et al.	All
AM	US- 5,234,809		08/10/1993	Boom et al.	All
AN	US- 5,316,680		05/31/1994	Frechet et al.	All
AO	US- 5,346,994		09/13/1994	Chomczynski	All
AP	US- 5,389,449		02/14/1995	Afeyam et al.	All
AQ	US- 5,395,498		03/07/1995	Gombinsky et al.	All
AR	US- 5,482,834		01/09/1996	Gillespie	All
AS	US- 5,523,231		06/04/1996	Reeve	All

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
AT	WO 95/06652		03/09/1995	Promega Corp	All	
AU	WO 97/29825		08/21/1997	Pharmacia Bio	All	
AV	WO 98/31461		07/23/1998	W.R. Grace	All	
AW	WO 98/31840		07/23/1998	Promega Corp.	All	
AX	CA 2,223,821		06/06/1996	Boehringer Mann	All	
AY	DE 4307262A1		09/08/1994	C. Bergemann	All	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)*

Sheet 2 of 6

Application Number	Unknown
Filing Date	
First Named Inventor	Allen M. Tereba
Art Unit	Unknown
Examiner Name	Unknown

Attorney Docket Number 016026-9043 DIV

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AZ	US- 5,582,988		12/10/1996	Backus et al.	
BA	US- 5,610,274		03/11/1997	Wong	
BB	US- 5,652,348		07/29/1997	Burton et al.	
BC	US- 5,658,548		08/19/1997	Padhye et al.	
BD	US- 5,660,984		08/26/1997	Davis et al.	
BE	US- 5,681,946		10/28/1997	Reeve	
BF	US- 5,728,822		03/17/1998	Macfarlane	
BG	US- 5,734,020		03/31/1998	Wong	
BH	US- 5,747,663		05/05/1998	Colpan et al.	
BI	US- 5,783,686		07/21/1998	Gonzalez	
BJ	US- 5,945,525		08/31/1999	Uematsu et al.	
BK	US- 5,990,301		11/23/1999	Colpan et al.	
BL	US- 6,027,945		02/22/2000	Smith et al.	
BM	US- 6,410,725		06/25/2002	Scholl et al.	
	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
BN	JP10-3116696		12/02/1998	Toyo Boseki KK		
BO	JP 09-327290		12/22/1997	Toyo Boseki KK		
BP	JP-09-327291		12/22/1997	Toyo Boseki KK		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

3

of

6

Application Number

Unknown

Filing Date

First Named Inventor

Allen M. Tereba

Art Unit

Unknown

Examiner Name

Unknown

Attorney Docket Number

016026-9043 DIV

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BQ	AUSUBEL, Frederic M., et al., Eds., "Current protocols in molecular biology," Chap. 2 (DNA) and Chap. 4 (RNA), Wiley-Interscience, NY (1987).	
	BR	BISCHOFF, Rainer, et al., "Chemically synthesized hydrophobic anion-exchange....", J. Chromatog., 270: 117-126 (1983).	
	BS	BISCHOFF, Rainer, et al., "Nucleic acid resolution by mixed-mode chromatography", J. Chromatog., 296:329-337 (1984).	
	BT	BOOM, R., et al., "Rapid and simple method for purification of nucleic acids," J. Clin. Microbiol. 28:3, pp. 495-503 (Mar.1990).	
	BU	CHEN, Carton W., et al., "Recovery of DNA segments from Agarose gels," Anal. Biochem., 101, pp. 339-341 (1980).	
	BV	CROWTHER, J.B., et al., "High-performance liquid chromatographic separation of oligonucleotides...", J. Chrom., 619-628 (1983).	
	BW	EDWARDSON, et al., "Separation and purification of oligonucleotides using a new bonded-phase packing material," J. Chromatog. 545:79-89 (1991).	
	BX	FLOYD, et al., "Mixed-mode hydrophobic ion exchange for the separation of oligonucleotides and DNA fragments using HPLC," Anal. Biochem. 154:570-577 (1986).	
	BY	GJERDE et al., "Ion chromatography," Ch. 3, Dr. Alfred Hothig Verlag Heidelberg, 2d Ed. (1987).	
	BZ	GOLDSBOROUGH et al., "High purity plasmid DNA from anion exchange chromatography," Focus, V. 20:3 (1998).	

Examiner Signature		Date Considered
--------------------	--	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Substitute for form 1449/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(Use as many sheets as necessary)</i></p>				Complete if Known	
				Application Number	Unknown
				Filing Date	
				First Named Inventor	Allen M. Tereba
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	4	of	6	Attorney Docket Number	016026-9043 DIV

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	CA	GREENSPOON, S, et al., "Robotic extraction of mock sexual assault samples using the Biomek® 2000 and the DNA IQ™ System," Profiles in DNA, V. 5:1, (Feb. 2002).		
	CB	ISHIDA, et al., "Methods and kit for extraction of RNA," Database CAS on-line, AN128:86151, Jp Kokai Tokkyo, abstract, 6 pp. (12/22/1997).		
	CC	ISHIDA, et al., "Methods and kit for extraction of RNA," Database CAS on-line, AN128:86152, Jp Kokai Tokkyo, abstract, 6 pp. (12/22/1997).		
	CD	JOST, et al., "Application of a weakly basic dimethylamino-modified silica ion exchanger to the separation of oligonucleotides", J. Chromatog. 185, 403-412 (1979).		
	CE	KIMPTON, C.P., "Validation of highly discriminating multiplex short tandem repeat amplification systems for individual ID," Electrophoresis, 17:1283-1293 (1996).		
	CF	KIRK-OTHMER, "Encyclopedia of chemical technology," V. 6, 4th ed., Mary Howe-Grant, ed., John Wiley & Sons, pub., pp. 773-775 (1993).		
	CG	KIRK-OTHMER, "Encyclopedia of chemical technology," V. 21, 4th ed., pp. 1021-1022 (1997).		
	CH	KLEIBER, et al., "Magnetic particles and their use for isolation of biological materials," Database CAS on-line AN 126 86772, Ger. Offen. 9 pp, abstract (12/12/1996).		
	CI	LIFE TECHNOLOGIES, "Aces 2.0+ Human DNA quantitation system," GIBCO BRL Products & Ref. Guide, pp. 19-28 (1997/1998) (www.order.lifetech.com).		
	CJ	MAA, et al., "Rapid high-performance liquid chromatography of nucleic acids with polystyrene-based micropellicular anion exchangers," J. Chromatog., 508:61-73 (1990).		

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	Unknown
				Filing Date	
				First Named Inventor	Allen M. Tereba
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	5	of	6	Attorney Docket Number	016026-9043 DIV

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	CK	MACHEREY-NAGEL, homepage on the Internet as of 6/12/98, at http://www.macherey-nagel.com .		
	CL	MARKO, et al., Anal. Biochem. 121, pp. 382-387 (1982).		
	CM	MATSUBARA, et al. "Dried blood spot on filter paper as a source of mRNA," Nucleic Acids Research, V. 20:8, 998 (1992).		
	CN	MATSUBARA, et al., "Wizard Minipreps DNA Purification Systems," Promega, pp. 1-4 (Dec 1994).		
	CO	McLAUGLIN, L., "Mixed-Mode chromatography of nucleic acids", Chem Rev., 89: 309-319 (1989).		
	CP	NORTHROP et al., "Preparation and evaluation of a bimodal size-exclusion chromatography column...", Anal. Chem., 63:1350-1354 (1991).		
	CQ	PROMEGA CORP., "Wizard ® Plus Series 9600™ DNA Purification System, Technical Bulletin No. 202 (9/98).		
	CR	PROMEGA CORP., "Wizard ® Plus SV Minipreps DNA Purification System," Technical Bulletin No. 225 (9/99).		
	CS	PROMEGA CORP., "Wizard ® PureFection Plasmid DNA Purification System," Technical Bulletin No. 259, (9/99).		
	CT	PROMEGA CORP., "DNA IQ™ System, Small sample casework protocol," Technical Bulletin No. 296, (revised 6/02).		

Examiner Signature		Date Considered
--------------------	--	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number		Unknown	
		Filing Date			
		First Named Inventor		Allen M. Tereba	
		Art Unit		Unknown	
		Examiner Name		Unknown	
Sheet	6	of	6	Attorney Docket Number	016026-9043 DIV

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	CU	PROMEGA CORP., "DNA IQ™, System-database protocol," Technical Bulletin No. 297, (revised 6/02).			
	CV	QuantiBlot Human DNA Quantitation Systems, PE Applied Biosystems, pp. 1-5 (2/5/96). (http://www.pebio.com/fo/773503/773503.html).			
	CW	R&D 100 AWARDS, a brief history of the, http://www.rdmag.com/rd100/100win.htm			
	CX	SAMBROOK et al., "Molecular Cloning a Laboratory Manual," 2nd ed. pp. 1.25-1.28 (1989).			
	CY	SPARKES, R., et al., "The validation of a 7-locus multiplex STR test for use in forensic casework," Int J Legal Med, 109: 195-204 (1996).			
	CZ	TEREBA, A., et al., "Simultaneous Purification and Quantitation of DNA from Liquid Blood and Bloodstains," Submitted on 3/1/1999 to the Int'l Assoc. of Forensic Sci. (IAFS) M			
	DA	UEMATSU, et al., "Magnetic carriers for the separation of nucleic acids...," Jp Kokai Tokkyo, Database CAS online, AN 126:18277, 9 pp. (1/21/1997), abstract.			
	DB	VOGELSTEIN, B. et al., Proc. Natl. Acad. Sci. (USA) 76, pp. 615-619 (1979).			
	DC	WATERBORG et al., "Efficient large-scale purification of restriction fragments by solute-displacement ion-exchange HPLC", Nucleic Acids Res., V. 21:12, 2913-2929 (1993).			
	DD	WIRTH, Mary, et al., "Mixed Self-Assembled Monolayers in Chemical Separation," Science, 275, pp. 44-47 (03 Jan 1997).			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.